

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE STATEMENT

In re Application of:  
R. Kenneth Marcus

Attorney Docket No.: CXU-303



Serial No.: Not yet assigned

Art Unit: Not yet assigned

Filed: August 21, 2001

Our Account No. 04-1403

Title: SAMPLING AND ANALYSIS OF AIRBORNE  
PARTICULATE MATTER BY GLOW DISCHARGE  
ATOMIC EMISSION AND MASS SPECTROMETRIES

Honorable Commissioner of Patents and Trademarks  
Washington, D.C. 20231

Sir:

The following is an Information Disclosure Statement for the subject patent application,  
pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

1.[X] Attached hereto is:

- a.[X] A list of all materials for consideration per Rule 98(a)(1): 2 page(s)
- b.[X] A legible copy of each patent, publication, or other item listed per Rule 98(a)(2),  
unless not required per Rule 98(c) and/or (d) and as indicated on the attached  
list(s): 38 item(s)
- c.[ ] For each non-English language item listed, pursuant to Rule 98(a)(3), a concise  
explanation of the relevance thereof as it is presently understood by the  
individual designated in Rule 56(c) most knowledgeable about the content of  
such items: \_\_\_\_\_ page(s)

2.[X] This Information Disclosure Statement is being filed [CHECK ONE]:

- a.[X] WITHIN THREE MONTHS of the application filing date or national stage date of  
entry OR BEFORE the mailing date of a first Office Action on the merits, which  
ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e)  
certificate is required.
- b.[ ] AFTER the time periods of section 2.a above, but BEFORE a Final Action OR  
Notice of Allowance, WHEREFORE per Rule 97(c) submitted herewith is  
[CHECK ONE]:
  - i.[ ] Certification per Rule 97(e) OR
  - ii.[ ] Filing Fee per Rule 17(p) ..... \$240.00
- c.[ ] AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the  
issue fee, WHEREFORE per Rule 97(d) submitted herewith is:
  - i. Certification per Rule 97(e)
  - ii. Petition: Petition is hereby made under Rule 97(d)(ii) for consideration of  
the present Information Disclosure Statement; AND
  - iii. Petition fee per Rule 17(i)(1) ..... \$130.00

3.[ ] Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party makes the  
following certification statement [CHECK ONE]:

- a.[ ] That each item of information contained in this Information Disclosure Statement  
was cited in a communication from a foreign patent office in a counterpart foreign  
application not more than thr e months prior to the filing of this statement; OR

- b.[] That no item of information contained in this Information Disclosure Statement was cited in a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned after making reasonable inquiry, was known to any individual designated in Rule 56(c) more than three months prior to the filing of this statement.

CERTIFYING PARTY (if different from bottom signature; omission here indicates that certification is being made by signer per signature below)

Name: \_\_\_\_\_ Signature \_\_\_\_\_

Address: \_\_\_\_\_

Date: \_\_\_\_\_

- 4.[X] DEPOSIT ACCOUNT AUTHORIZATION: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (deficiency only) now or hereafter relative to this application and the resulting official document under Rule 20, or credit any overpayment, to our Account No. shown in the heading hereof for which purpose a duplicate copy of this sheet is attached. This statement does not authorize charge of the issue fee in this case.

- 5.[X] CERTIFICATE OF MAILING: This Information Disclosure Statement is being filed pursuant to [CHECK AND COMPLETE ONE]:

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By: James M. Bagarazzi

Reg. No.: 29,809

Signature: James M. Bagarazzi

Date: Aug 21, 2001

(Rev. 5/92)  Information Disclosure Statement List By Applicant Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Attorney Docket Number CXU-303	Serial Number Not yet assigned
	Applicant R. KENNETH MARCUS	
	Filing Date August 21, 2001	Group Not yet assigned

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- (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in USSN \_\_\_\_\_, filed \_\_\_\_\_; relied on under 35 U.S.C. Section 120, per Rule 98(d)
- (3) Both reasons (1) and (2) apply
- (4) No legible complete copy is possessed, in custody or controlled, or readily available

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 09/934273  
 06/21/01

U. S. PATENT DOCUMENTS									
EXAMINER INITIALS	PATENTEE NAME	PATENT NUMBER						ISSUE DATE	COPY NOTE
	Hall et al.	4	1	6	7	6	6	7	09/1979
	Szekely	4	3	6	8	8	5	0	01/1983
	Clark et al.	4	3	8	1	6	6	4	05/1983
	Sinha et al.	4	3	8	3	1	7	1	05/1983
	Browner et al.	4	6	8	7	9	2	9	08/1987
	Browner et al.	4	7	6	2	9	9	5	08/1988
	Wooliam	4	8	0	8	8	2	7	02/1989
	Braden	4	8	7	2	7	8	6	10/1989
	Vestal	4	8	8	3	9	5	8	11/1989
	Browner et al.	4	9	2	4	0	9	7	05/1990
	Liu et al.	4	9	2	8	5	3	7	05/1990
	Marcus	5	0	0	6	7	0	6	04/1991
	Marcus	5	0	8	6	2	2	6	02/1992
	Prescott et al	5	0	9	6	6	1	5	03/1992
	Browner et al.	5	1	7	5	4	3	3	12/1992
	Ligon et al.	5	2	6	6	1	9	2	11/1993
	Lilienfeld	5	3	1	9	5	7	5	06/1994
	Duckworth et al.	5	3	2	5	0	2	1	06/1994
	Whitt	5	3	3	1	1	6	0	07/1994
	French et al.	5	3	4	5	0	7	9	09/1994
	Downey et al.	5	3	8	2	7	9	4	01/1995
	Zhu et al.	5	4	0	0	6	6	5	03/1995
	Mitchell et al.	5	4	0	8	3	1	5	04/1995
	Zimmerman	5	4	1	0	9	1	8	05/1995
	Raabe et al.	5	4	1	2	9	7	5	05/1995
	John	5	4	3	7	1	9	8	09/1995
	Kiplinger	5	5	0	0	3	6	9	03/1996
	Wexler et al.	5	5	6	5	6	7	7	10/1996
	Prather	5	6	8	1	7	5	2	10/1997

FOREIGN PATENT DOCUMENTS									
EXAMINER INITIALS	COUNTRY	DOCUMENT NUMBER				PUBLICATION DATE	TRANSLATION		COPY NOTE

EXAMINER INITIALS	OTHER DOCUMENTS	COPY NOTE
	Specify author (if any), title pertinent pages, date and place of publication	

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EXAMINER	DATE CONSIDERED
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FOREIGN PATENT DOCUMENTS					
EXAMINER INITIALS	COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	TRANSLATION	COPY NOTE

EXAMINER INITIALS	OTHER DOCUMENTS	COPY NOTE
	Specify author (if any), title pertinent pages, date and place of publication	
	Book of Abstracts, PITTCON® '98, March 1-5, 1998	
	Celia Henry, DUST IN THE WIND, Analytical Chemistry News & Features, July 1, 1998	
	Technical Information, Model PT1000/CY2000 Particle Analyzer System, Yokogawa Electric Corporation, March 1996	
	Jianzhang You, Melissa A. Dempster, and R. Kenneth Marcus, ANALYSIS OF ORGANIC COMPOUNDS BY PARTICLE BEAM/HOLLOW CATHODE ATOMIC EMISSION SPECTROSCOPY: DETERMINATIONS OF CARBON AND HYDROGEN IN AMINO ACIDS, Analytical Chemistry, Vol. 69, No. 17, September 1, 1997	
	Jianzhang You, Patrick A. DePalma, Jr., and R. Kenneth Marcus, NEBULIZATION AND ANALYSIS CHARACTERISTICS OF A PARTICLE BEAM-HOLLOW CATHODE GLOW DISCHARGE ATOMIC EMISSION SPECTROMETRY SYSTEM, Journal Of Analytical Atomic Spectrometry, July 1996, Vol. 11 (483-490)	
	Cynthia M. Strange and R. Kenneth Marcus, AQUEOUS SAMPLE INTRODUCTION INTO A GLOW DISCHARGE DEVICE VIA A PARTICLE BEAM INTERFACE, Spectrochimica Acta. Vol. 46B, No. 4, pp. 517-426, 1991	
	Jianzhang You, Melissa A. Dempster and R. Kenneth Marcus, STUDIES OF ANALYTE PARTICLE TRANSPORT IN A PARTICLE BEAM-HOLLOW CATHODE ATOMIC EMISSION SPECTROMETRY SYSTEM, Journal of Analytical Atomic Spectrometry, August 1997, Vol. 12 (807-815)	
	Jianzhang You, James C. Fanning, and R. Kenneth Marcus, PARTICLE BEAM AQUEOUS SAMPLE INTRODUCTION FOR HOLLOW CATHODE ATOMIC EMISSION SPECTROSCOPY, Analytical Chemistry, Vol. 66, No. 22, November 15, 1994	
	Sylvia H. Wood, Kimberly A. Prather, TIME-OF-FLIGHT MASS SPECTROMETRY METHODS FOR REAL TIME ANALYSIS OF INDIVIDUAL AEROSOL PARTICLES, Trends in Analytical Chemistry, Vol. 17, No. 6, 1998	

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